



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sovolnra 1449/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 3

Complete if Known

Application Number	10/588,091
Filing Date	July 28, 2006
First Named Inventor	John M. Stencel
Art Unit	2856
Examiner Name	Kwok
Attorney Docket Number	1284-001

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/HK/	1	US- 3,246,516	04-19-1966	N. Maropis	
	2	US- 4,184,371	01-22-1980	Brachet	
	3	US- 4,325,255	04-20-1982	Howard et al.	
	4	US- 4,624,745	11-25-1986	Sande et al.	
	5	US- 4,640,130	02-03-1987	Sheng et al.	
	6	US- 4,934,177	06-19-1990	Cuthbertson et al.	
	7	US- 5,108,655	04-28-1992	Johns, Jr. et al.	
	8	US- 5,656,428	08-12-1997	McAllister et al.	
	9	US- 5,868,859	02-09-1999	Hei et al.	
	10	US- 6,082,174	07-04-2000	Lee et al.	
	11	US- 6,385,558	05-07-2002	Schlemm	
	12	US- 6,397,665	06-04-2002	Kirts et al.	
	13	US- 6,405,580	06-18-2002	Kirts et al.	
	14	US- 6,461,414	10-08-2002	Kohl et al.	
	15	US- 6,507,790	01-14-2003	Radomski	
	16	US- 6,542,828	04-01-2003	MacDonald et al.	
	17	US- 6,590,000	07-08-2003	Varadaraj	
/HK/	18	US- 6,640,618	11-04-2003	Kirts et al.	
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² "Number" "Kind Code ³ " (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
/HK/	19	EP 0 697 583	02-21-1996	Bolland		

Examiner Signature	/Helen Kwok/	Date Considered	01/22/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the required application forms to the USPTO. Times will vary depending upon the individual case. Any comments on the amount of time it takes to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22213-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22213-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/588,091
		Filing Date	July 28, 2006
		First Named Inventor	John M. Stencel
		Art Unit	2856
		Examiner Name	Kwok
Sheet	2	of	3
		Attorney Docket Number	1284-001

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/HK/	20	BOYD, VARLEY; "The uses of passive measurement of acoustic emissions from chemical engineering processes"; Chemical Engineering Science 56; 2001; pgs 1749-1767;	
/HK/		Elsevier Science Ltd.; Department of Chemical Engineering and Chemical Technology, Imperial College of Science, Technology, and Medicine; London, England	
/HK/	21	GODDARD, FORSTER; "Stable foams in activated sludge plants"; Enzyme Microb. Technol., 1987; pgs 164-168, Vol. 9; Department of Civil Engineering, Birmingham University;	
/HK/		Birmingham, England	
/HK/	22	DODSON, PH.D.; "Concrete Admixtures"; Structural Engineering Series; pgs 139-149; Van Nostrand Reinhold, New York , no date .	
/HK/	23	HOSSAIN, WUN JERN, SAY LEONG; "Control of Activated Sludge Foaming"; pgs 771-778; Dept. of Civil Engineering, National University of Singapore; Singapore , no date .	
/HK/	24	BROWN, KAUL, VARLEY; "Continuous Foaming for Protein Recovery; Part II. Selective Recovery of Proteins from Binary Mixtures"; Biotechnology and Bioengineering, Feb 1999; pgs 291-300,	
/HK/		Vol. 62, No. 3; John Wiley & Sons, Inc.; Biotechnology and Biochemical Engineering Group, Food Science and Technology Dpt., The University of Reading; Reading, England	
/HK/	25	LOCKWOOD, BUMMER, JAY; "Purification of Proteins Using Foam Fractionation"; Pharmaceutical Research, 1997; pgs 1511-1515, Vol 14, No. 11; Plenum Publishing Corporation	
/HK/	26	BANHART, STANZICK; "Metal foam evolution studied by synchrotron radioscropy"; App. Phys. Letters, Feb 2001; pgs 1152-1154, Vol 78, No 8; American Institute of Physics; Germany	

Examiner Signature	/Helen Kwok/	Date Considered	01/22/2008
--------------------	--------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/588,091
		Filing Date	July 28, 2006
		First Named Inventor	John M. Stencel
		Art Unit	2856
		Examiner Name	Kwok
Sheet	3	of	3
		Attorney Docket Number	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers(s), publisher, city and/or country where published.		T ²
/HK/	27	RZESZOTARSKA, REJMUND, RANACHOWSKI; "Acoustic emission measurement of foam evolution in H2O-C2H5OH-- air systems with content of detergent triton X-100"; Ultrasonics, 1998;		
/HK/		pgs 953-958; Elsevier Science B.V.; Institute of Fundamental Technological Research Problems; Warsaw, Poland		
/HK/	28	POLLOCK; "Acoustic Emission Inspection"; Physical Acoustics Corporation, Technical Report, 2003; MISTRAS Holdings Group		
/HK/	29	WILSON; "Cement and Concrete: Environmental Considerations"; Environmental Building News, March/April 1993; Vol 2, No 2; BuildingGreen, Inc.		
/HK/	30	"REACT"; Physical Acoustics Corporation, 2003; MISTRAS Holdings Group; Princeton Jct, New Jersey		
/HK/	31	WEAIRE, HUTZLER; "The Physics of Foams", 2003; Oxford Press, ISBN 0-19-851097-7		
/HK/	32	VANDEWALLE, LENTZ, DORBOLO, BRISBOIS; "Avalanches of Popping Bubbles in Collapsing Foams"; Phys. Rev. Lett., 2001; Vol. 86		
/HK/	33	HILL, MANROSS, DAVIDSON, PALMER, NUTT, ROSS; "Sensing and Control Systems: A Review of Municipal and Industrial Experiences"; WERF Report 99-WWF-4; 2002, IWA Publishing		

Examiner Signature	/Helen Kwok/	Date Considered	01/22/2008
--------------------	--------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.